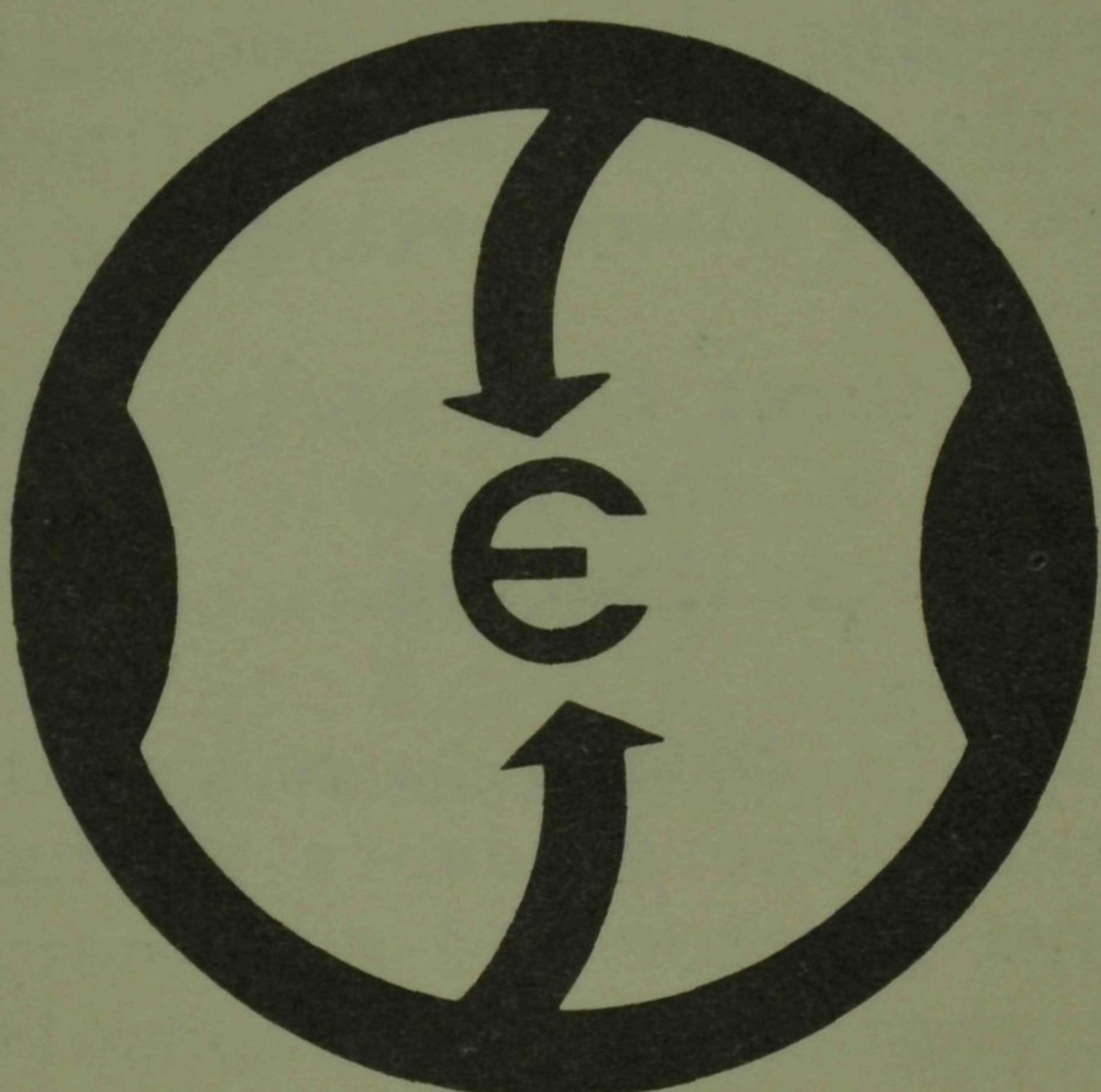


The Illinois Student Branch  
of the  
American Society of Agricultural  
Engineers

110622

**1977  
Engineering Open House**



**Agricultural Engineering**

College of Engineering  
University of Illinois at Urbana-Champaign  
Friday, March 4, 10:00 a.m.-8:00 p.m.  
Saturday, March 5, 9:00 a.m.-4:00 p.m.

*Agricultural Engineering  
The Profession with America's Future*

1977 ENGINEERING OPEN HOUSE  
March 4 and 5, 1977

Welcome to Agricultural Engineering Open House. The Department of Agricultural Engineering bridges the gap between two great disciplines, engineering and agriculture. The program is actually a part of the College of Engineering, but the cooperation and interaction between the Agricultural Engineers and the College of Agriculture are always evident.

The Agricultural Engineering curriculum offers a student a choice of interests. The curriculum has four areas of specialization.

Many students choose to major in Power and Machinery. After these students graduate, they may be engaged in farm tractor and machinery development, design, plant engineering, or consulting.

The Soil and Water area provides excellent opportunities for many young engineers. An increasing awareness of the necessity for the planned use of our water and soil resources on every level of activity--county through international--has set new standards for the engineers who must cope with problems of water shortage, flood control, and optimization of agronomic production through more efficient drainage, irrigation, and erosion control practices.


The Processing graduate may be involved with any sort of problem in grain or materials handling, drying, or storage. The processing graduate has knowledge of electronics and psychrometry and may work in many areas of industry.

The Structures and Environment graduate has experience in design principles, farm buildings, strength of materials, foundation engineering, concrete design, and new innovations in waste management. The area of waste management is a very good area for a structures graduate to do his service to society and agriculture.

The interdisciplinary background of the agricultural engineer serves him well in dealing with problems, each of which involves a multiplicity of public interests. For men capable of applying new concepts of hydrology, hydraulics, construction, and machinery design, the opportunities are great.

Thank you for touring the Agricultural Engineering Department. Please feel free to ask questions. If you would like more information about Agricultural Engineering, please write to Dr. Frank B. Lanham, Head, Agricultural Engineering Department, University of Illinois, Urbana, Illinois 61801.

Visit us again.  
We enjoyed being your host.



## ENGINEERING OPEN HOUSE EXHIBITS

### Power and Machinery

1. Use of Wang in Conversion of SI Units
2. Noise Reduction by Component Spectra Optimization
3. Tractor and Field Evaluation of Herbicides
4. By-Pass Spray Nozzles
5. Predicting Traction Using Artificial Soils
6. Non-Symmetrical Fan Studies
7. Dynamometer Demonstrations
8. New Equipment for Soybean Harvesting

### Structures and Environment

1. Energy Efficient Farm
2. Wind Storm Simulator
3. Hail Storm Damage to Siding

### Soil and Water

1. Methods of Controlling Feedlot Runoff
2. Mechanical Mouse for Measuring Plastic Drain Tile Deflection
3. General Soil and Water Display
4. Moisture Effects on Tillage Trafficability

### Electrical Power and Processing

1. Programmable Sequence Controller for Livestock Feeding
2. Soybean Quality Measurement
3. A Model Soil Grain Dryer
4. Foods for the Future
5. Microwave Roasted Soybeans
6. Refrigeration Unit

## INDUSTRIAL EXHIBITS

### Power and Machinery

Caterpillar Tractor Company  
Peoria, Illinois

International Harvester Company  
Chicago, Illinois

### Structures and Environment

Chore Time Equipment Company  
Milford, Indiana

### Processing

Dickey John Corporation  
Auburn, Illinois

### Dealer Exhibits

H and H Equipment Company  
Allis-Chalmers Equipment, Sidney, Illinois

Plotner Ford Tractor, Inc.  
Ford Farm Equipment, Thomasboro, Illinois

Massey Ferguson Inc., Farm Center  
Massey Ferguson Equipment, Urbana, Illinois

Allerton Implement Company  
John Deere Equipment, Allerton, Illinois